

CONCEPT: CHROMOSOMAL REARRANGEMENTS: DELETIONS

- **Deletions** are a type of chromosomal rearrangement that results in a loss of a part of a chromosome arm

- ☐ Deletions require that there are two breaks to cut out the segment

- The deleted chromosomal segment contains no centromere – and is lost after cell division

- ☐ There are many types of _____

Deletion type	Location of deletion
Intragenic deletion	Within a gene
Multigenic deletions	Multiple genes
Terminal Deletions	End of a chromosome
Intercalary Deletions	Interior of a chromosome

- Deletions cause a couple of important _____

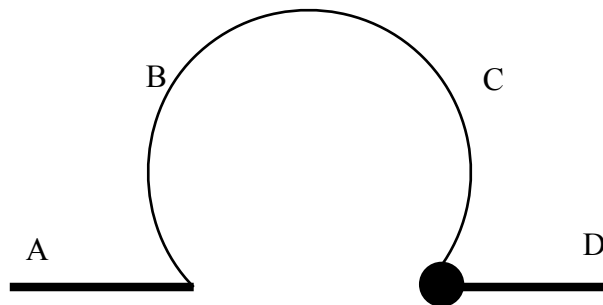
- ☐ **Pseudodominance** occurs when the deletion allows for a single recessive allele to show its phenotype

- ☐ A **deletion loop** is created between between the normal homolog and its partner congaing the missing segment

- Allows for proper segregation during meiosis

- ☐ A human example of a deletion is **Cri du chat syndrome** which is caused by a deletion in chromosome 5

EXAMPLE:



PRACTICE

1. An intragenic deletion is a deletion found where?
 - a. In a centromere
 - b. In a gene
 - c. In multiple chromosomes
 - d. In multiple genes

2. Deletions can cause what type of phenotype?
 - a. Leaky allele
 - b. Psudodominance
 - c. Intercalary
 - d. Faulty

3. Which of the following genetic diseases is an example of a chromosomal deletion?
- a. Down syndrome
 - b. Familial down syndrome
 - c. Cri du Chat syndrome
 - d. Klinefelter's Disease